

# Asbestos Requirements and Updates

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Our Mission: To protect and improve the health and environment of all Kansans.



# What is asbestos?

**Asbestos** is a naturally occurring mineral fiber found in rock and soil that once was lauded for its versatility, recognized for its heat resistance, tensile strength and insulating properties, and used for everything from fire-proof vests to home and commercial construction. It was woven into fabric, and mixed with cement.

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# What is asbestos?

**Asbestos** refers to **six** unique substances that belong to the serpentine and amphibole mineral families: chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.

Chrysotile is the most common found.

Crocidolite, due to its structure, is the most dangerous to human health.

# What is asbestos?

## ASBESTOS



CHRYSOTILE



AMOSITE



CROCIDOLITE



TREMOLITE



ACTINOLITE



ANTHOPHYLLITE

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# What is asbestos?



Actinolite



Amosite



Anthophyllite



Chrysotile



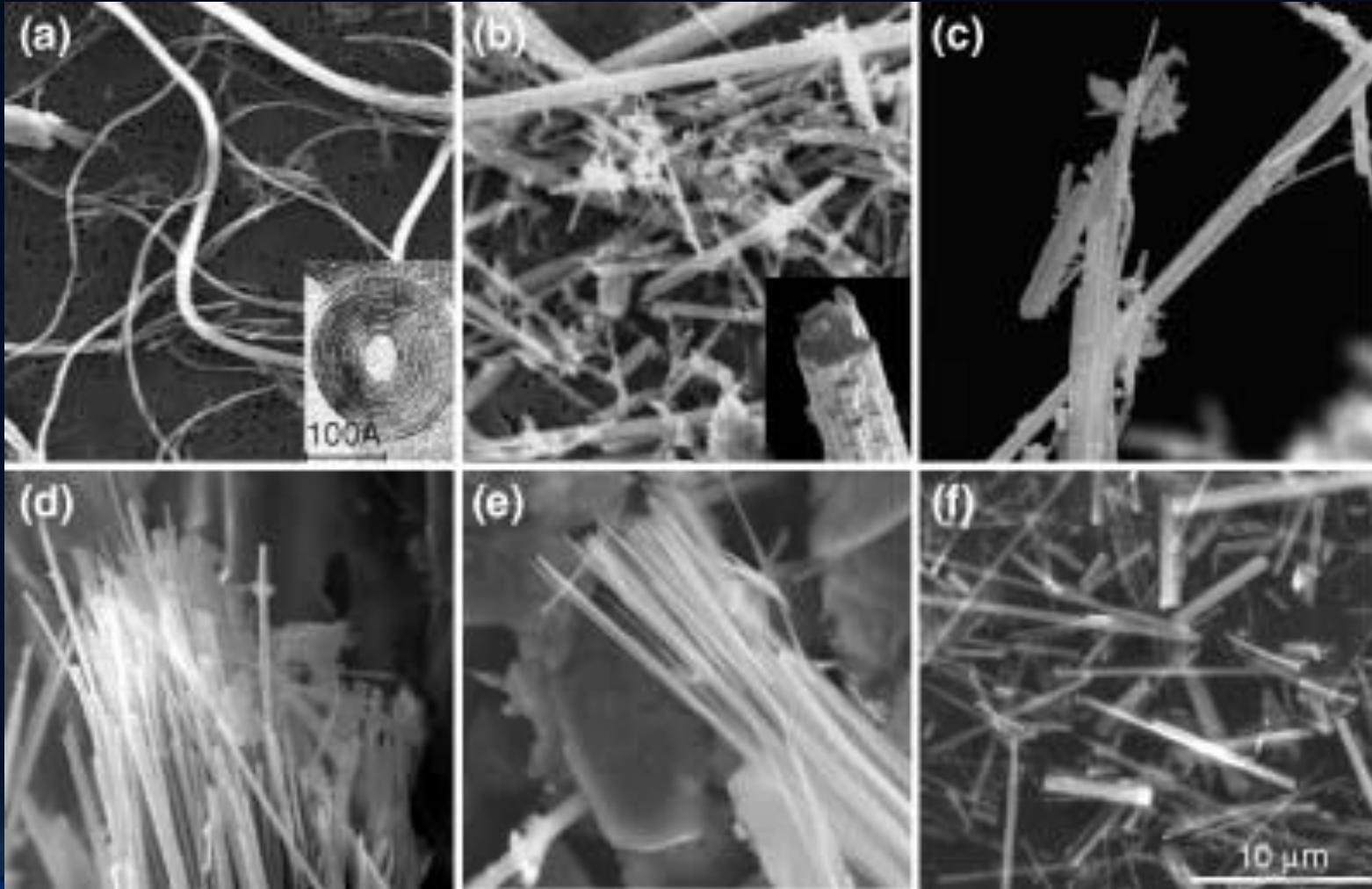
Tremolite



Crocidolite

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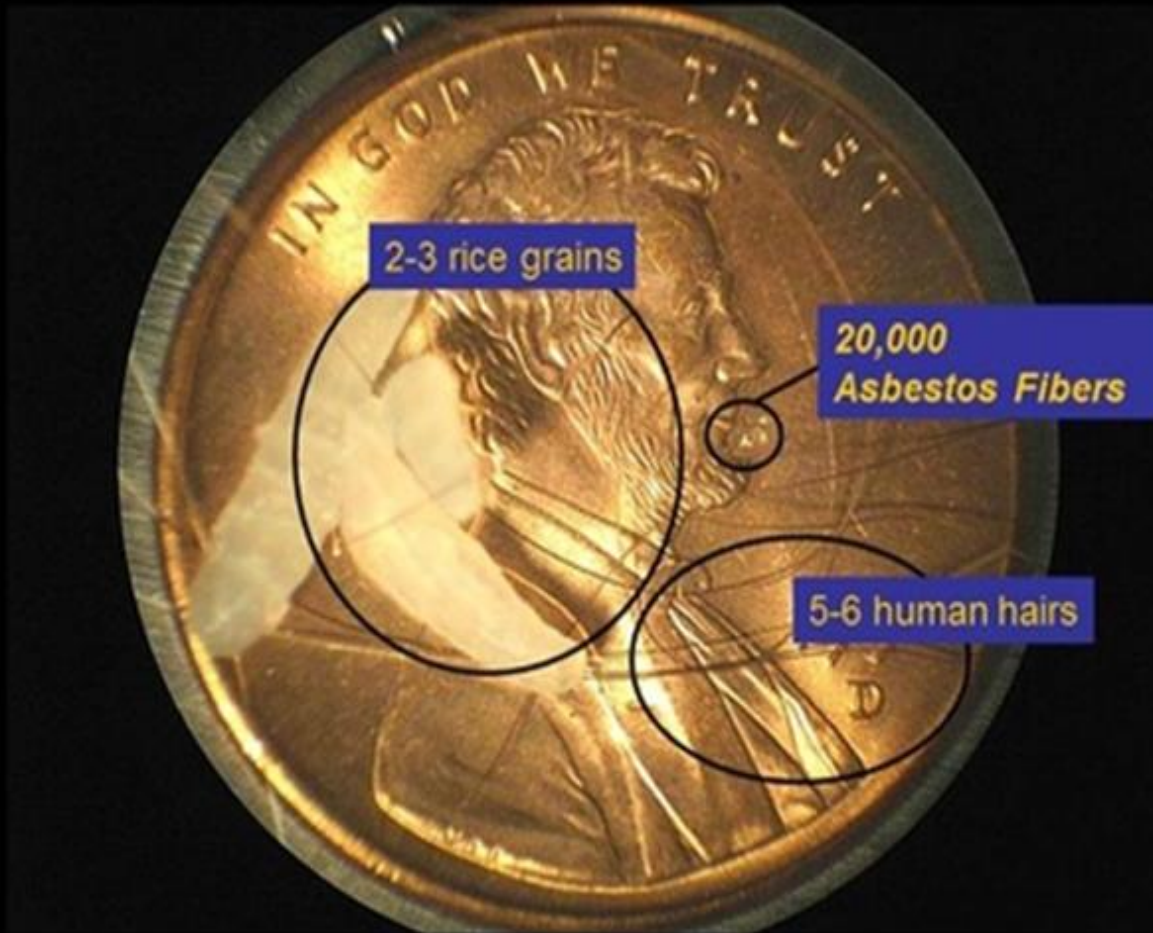
# What is asbestos?



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# How small is asbestos?



Their size is about 3–20  $\mu\text{m}$  wide and can be as slim as 0.01  $\mu\text{m}$ .

Human hair ranges in size from 17 to 181  $\mu\text{m}$  in breadth

[www.AsbestosDiseaseAwarenessOrganization.org](http://www.AsbestosDiseaseAwarenessOrganization.org)

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# What is asbestos?

## **Asbestos** can be found in:

- Attic and wall insulation produced containing vermiculite
- Vinyl floor tiles and the backing on vinyl sheet flooring and adhesives
- Roofing and siding shingles
- Textured paint and patching compounds used on wall and ceilings
- Walls and floors around wood-burning stoves protected with asbestos paper, millboard, or cement sheets
- Hot water and steam pipes coated with asbestos material or covered with an asbestos blanket or tape
- Oil and coal furnaces and door gaskets with asbestos insulation
- Heat-resistant fabrics
- Automobile clutches and brakes

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# What is asbestos?



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and Environment





# What is so bad about asbestos?

**Asbestos** is dangerous because it causes asbestosis, mesothelioma and other forms of cancer.

These diseases average 20-30 years after first exposure before they manifest.

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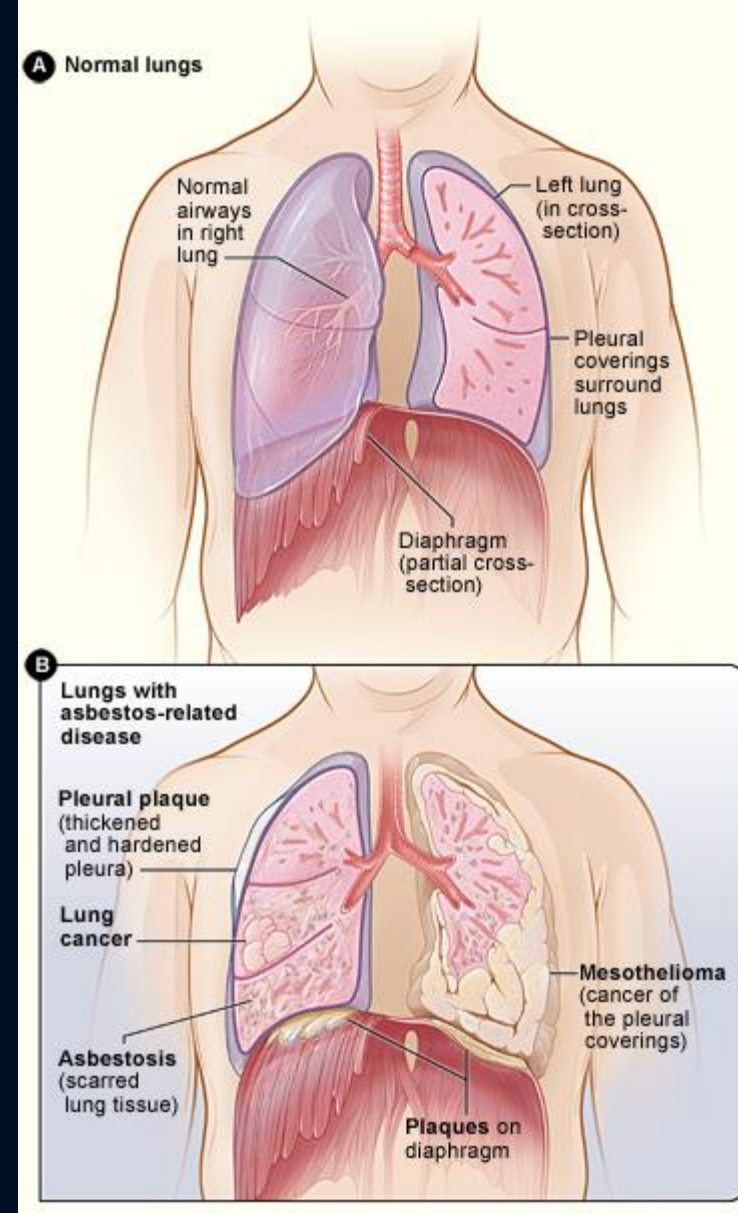


# What is so bad about asbestos?

Asbestosis is chronic, progressive inflammation of the lung.

Symptoms include:

- shortness of breath
- dry cough
- swelling of hands and feet
- chest pain



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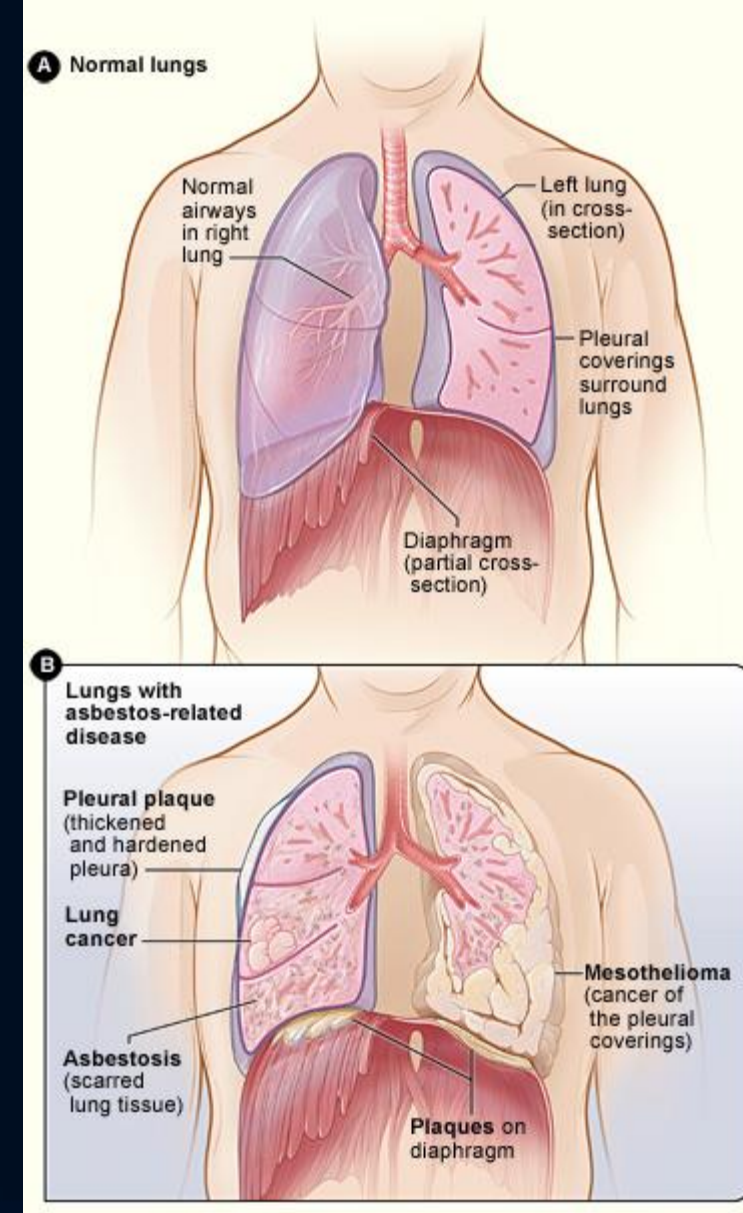


# What is so bad about asbestos?

Mesothelioma is a disease that causes malignant **cancer** cells to form within the lining of the chest, abdomen, or around the heart.

Symptoms include:

- shortness of breath
- dry cough/wheezing
- muscle weakness
- chest pain
- weight loss

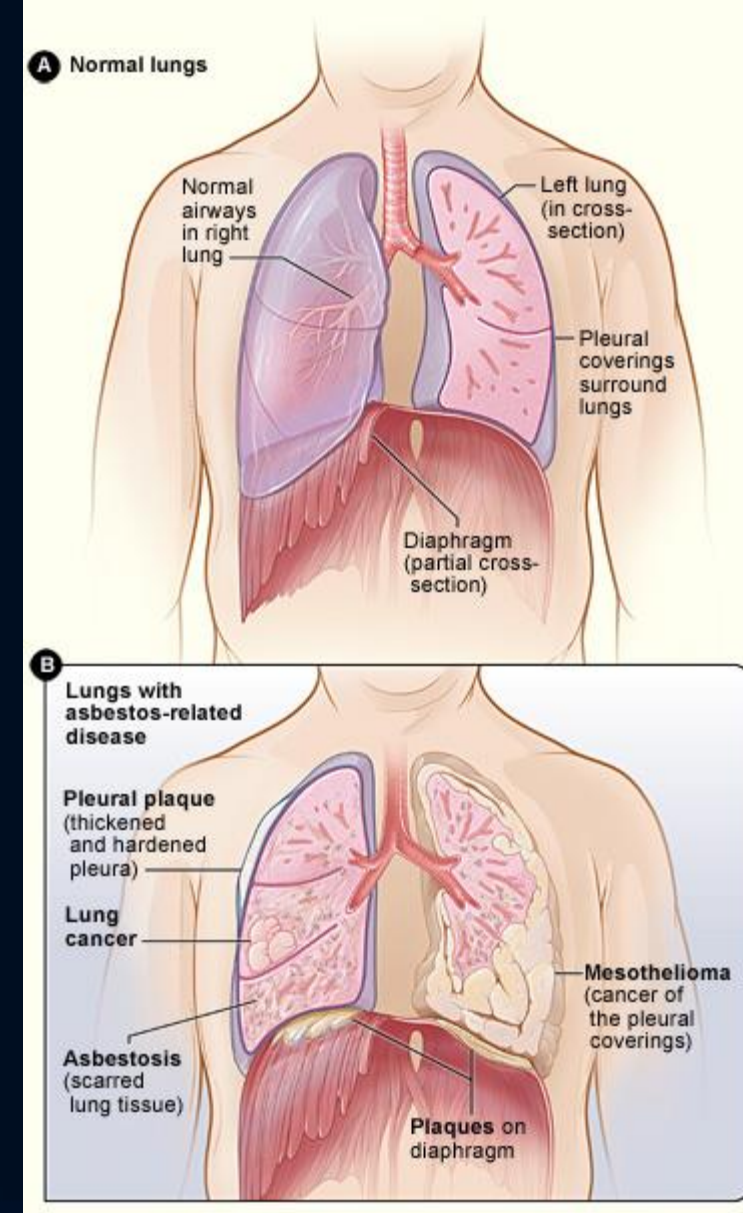


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# What is so bad about asbestos?

Lung cancer is the most common cause of cancer related death in the United States. Smoking is attributed to 90% of lung cancer cases, while asbestos is about 4%.

Symptoms are the same as from Mesothelioma.

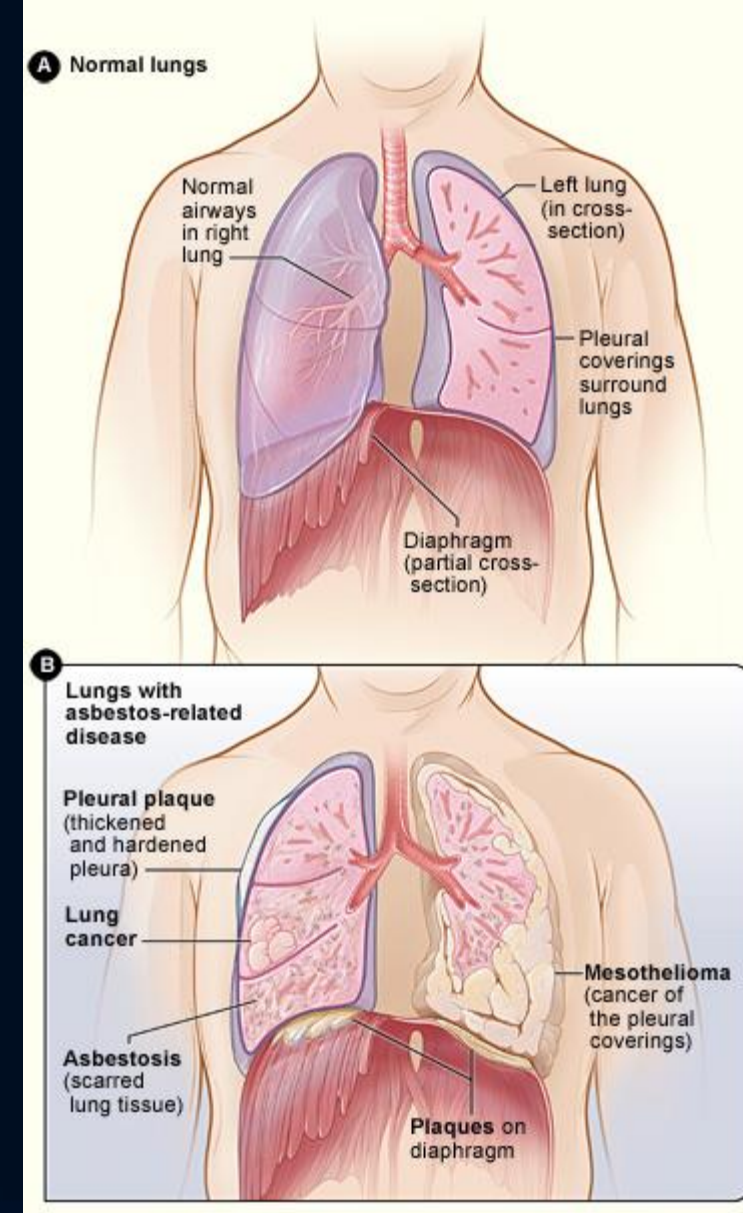




# What is so bad about asbestos?

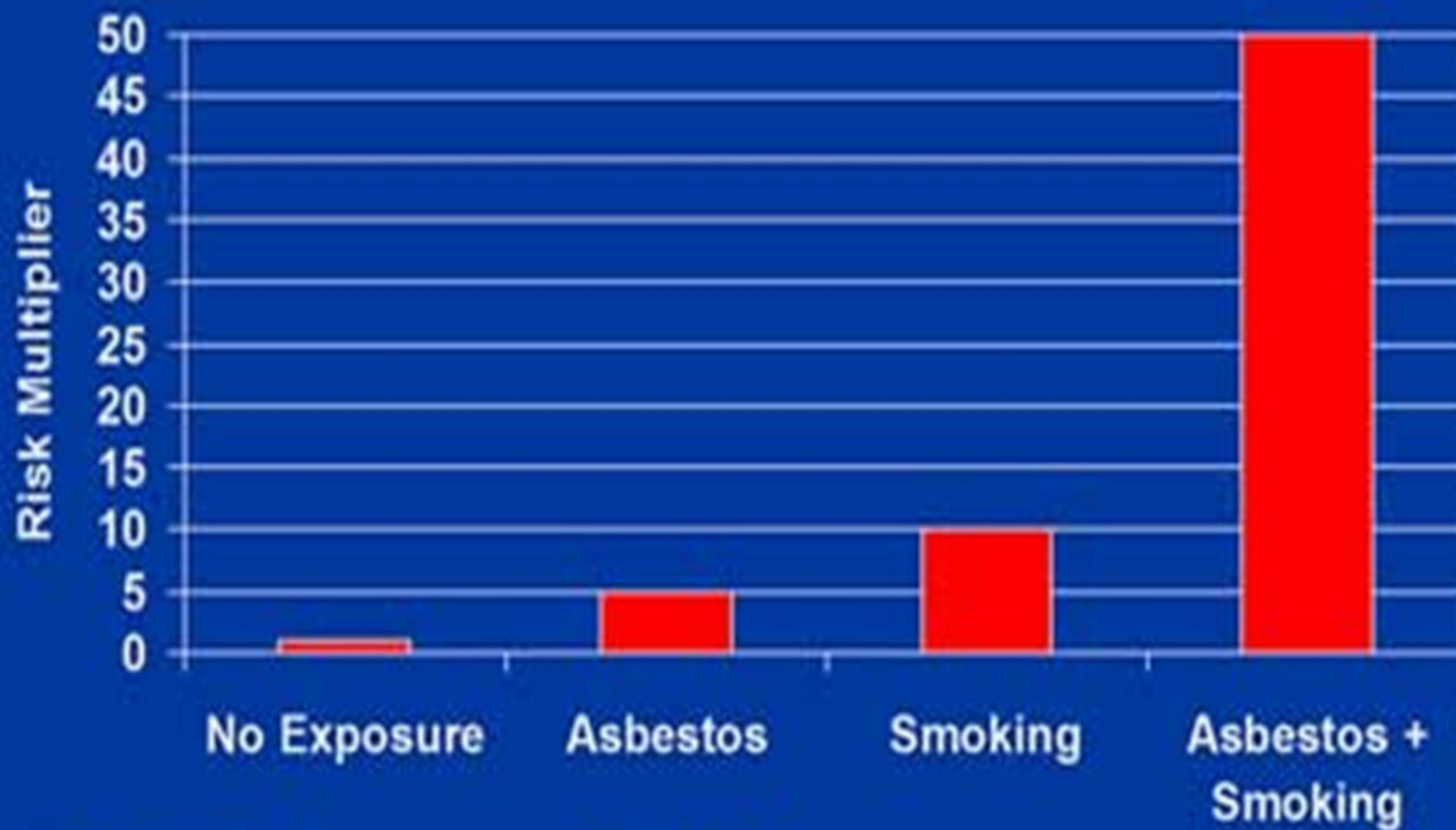
Lung cancer is the most common cause of cancer related death in the United States. Smoking is attributed to 90% of lung cancer cases, while asbestos is about 4%. **Smokers who are also exposed to asbestos are on average 80% more likely to develop lung cancer!**

Symptoms are the same as from Mesothelioma.





## Lung Cancer Risks



(70 per 100,000  
lung cancer deaths  
in general population)

5x higher risk  
than general  
population

10x higher  
risk

50x to 90x  
higher risk

# Asbestos classification

Friable vs non-friable

Friable ACM - >1% asbestos that can be crumbled, pulverized, or reduced to powder by hand pressure when dry

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# Asbestos classification

## Friable vs non-friable

Friable ACM - >1% asbestos that can be crumbled, pulverized, or reduced to powder by hand pressure when dry

Nonfriable ACM - >1% asbestos that cannot be crumbled, pulverized, or reduced to powder by hand pressure when dry



# Asbestos classification

## Friable vs non-friable

Friable ACM - >1% asbestos that can be crumbled, pulverized, or reduced to powder by hand pressure when dry

Nonfriable ACM - >1% asbestos that cannot be crumbled, pulverized, or reduced to powder by hand pressure when dry

Nonfriable can be made friable by sanding, grinding, abrading

# Asbestos Statutes - K.S.A. 65-5301 to 65-5315

65-5304 requires asbestos abatement companies to obtain an annual business license from KDHE.

- \$1000 annual fee associated with this license.
- Business license holder is responsible for ensuring state and federal asbestos rules and regulations are followed.

# Asbestos Statutes - K.S.A. 65-5301 to 65-5315

65-5308 required asbestos workers (Class I worker/Class II supervisor) to obtain an annual certification from KDHE.

- \$20/\$40 annual fee associated with this certification.
- Required proof of mandated annual asbestos safety/awareness training.
- Received a laminated ID certification card.



# Asbestos Statutes - K.S.A. 65-5301 to 65-5315

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**NO CHANGE THERE**

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- As of July 1, 2016, 65-5308 was eliminated from the statutes and is no longer in effect.
- Workers/supervisors must continue federally mandated training;  
**NO CHANGE THERE**
- Must present proof of training to inspector when onsite.

# Asbestos Regs - K.A.R. 28-50-1 to 28-50-14

## 28-50-1: Definitions

An inspection by a qualified asbestos inspector is required for all commercial, industrial or residential buildings (5 units+) or structures if there is more than 25 lineal feet or 10 square feet of ACM.

NESHAP (40 CFR Part 61, Subpart M) triggers if the project contains 260 lineal feet or 160 square feet or more of ACM.

Renovations require inspection but don't require notification if less than 25 lineal feet or 10 square feet.



# Asbestos Regs - K.A.R. 28-50-1 to 28-50-14

28-50-8: Describes notification requirements in Kansas

Must submit an abatement notification form at least 10 business days prior to work.

Requires a \$50 base fee up to NESHAP, then fee adds 0.5% of the project cost up to max fee of \$2,500.

10 day wait period can be waived by paying double.

Postmarked Date: \_\_\_\_\_  
Check Number: \_\_\_\_\_  
Project Number: \_\_\_\_\_  
Office Use Only

**PROJECT REVIEW FEE CALCULATION FORM**

Name of Firm \_\_\_\_\_ License No. \_\_\_\_\_

Project Location \_\_\_\_\_ City \_\_\_\_\_

1. **Total Contract Price (TCP)** – Enter complete cost of project. If project is less than 160 square feet or 260 linear feet proceed to line 7.
2. **Associated Contract Charge (ACC) Calculation**–Identify and total all charges included in the Total Contract Price (TCP) for work other than asbestos removal, such as reinstalling thermal insulation or fireproofing, remodeling work, demolishing structure. List type of work and charge.

Associated Contract Charge(s) (ACC)	Charge
2a.	
2b.	
2c.	

Associated Contract Charge (ACC) Total

3. **Non-Regulatory Cost (NRC) Calculations** – Identify and total all charges included in the Total Contract Price (TCP) for asbestos removal related work that pertain to activities or items that are not required by the State's asbestos control regulations such as insurance, bonds, sampling, etc.

Non-Regulated Costs(s) (NRC)	Cost
3a.	
3b.	
3c.	

Non-Regulated Cost (NRC) Total

4. Add Line 2 (ACC) and Line 3 (NRC)
5. Sub Total Contract Correction – Subtract Line 4 from Line 1
6. Fee Correction – Multiply Line 5 by 0.5% (.005); Round Off To Nearest Dollar.
7. Baseline Project Review Fee
- 8a. Total Non-Adjusted Project Review Fee – Add Line 6 and Line 7
- 8b. If 10 day pre-notification requirement waiver is requested, multiply Line 8a by 2
- 8c. Total Adjusted Project Review Fee – Enter 8a or 8b, whichever is greater

I hereby certify, to the best of my knowledge and understanding, the information provided above is true and correct.

Signed \_\_\_\_\_ Date \_\_\_\_\_

[illegible]

# Asbestos Notification Form

## Fee calculation page

## Our Mission: To



Postmarked Date: \_\_\_\_\_  
Amount of Project: \_\_\_\_\_  
Amount Paid: \_\_\_\_\_  
10-day Waiver: YES NO  
Office Use Only

Form ET-ASB8 (02/15)  
Page 1 of \_\_\_\_\_

**PART A AUTHENTICATION**

I hereby certify, to the best of my knowledge and understanding, the information provided in this notification is **true, complete, and correct.**

Signed \_\_\_\_\_ Date \_\_\_\_\_

Print or Type Name \_\_\_\_\_ Telephone No. (\_\_\_\_) \_\_\_\_\_

Name of Firm (or Agency) \_\_\_\_\_ License No. \_\_\_\_\_

Mailing Address of Firm (or Agency): Street or Box \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

**PART B PROJECT DESCRIPTION**

Type of Notification: Original \_\_\_\_\_ Amended \_\_\_\_\_ Emergency \_\_\_\_\_ 10-day Waiver \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_

Purpose of Project (check one): Renovation \_\_\_\_\_ Demolition \_\_\_\_\_ Time & Materials \_\_\_\_\_ Operation & Maintenance \_\_\_\_\_

**1. Building/Structure Owner**

Owner Name: \_\_\_\_\_

Owner Address: Street \_\_\_\_\_ City \_\_\_\_\_

Owner Contact: Name \_\_\_\_\_ Telephone No. (\_\_\_\_) \_\_\_\_\_

**2. Building/Structure Description**

Address: Street \_\_\_\_\_ City \_\_\_\_\_

County \_\_\_\_\_ Building Age: (Years) \_\_\_\_\_

Past/Present Use: \_\_\_\_\_

Future Use: \_\_\_\_\_

Building Size: Total Floor Space (ft<sup>2</sup>) \_\_\_\_\_ Number of Floors \_\_\_\_\_

**3. Total Amounts of Friable Asbestos to be removed from Building/Structure**

a) Friable asbestos removed from pipe surfaces (linear feet) \_\_\_\_\_

b) Pipe removed by dismantling, with friable asbestos left in place (linear feet) \_\_\_\_\_

c) Friable asbestos removed from other surfaces:

Types of Surface \_\_\_\_\_ Amount (ft<sup>2</sup>) \_\_\_\_\_

# Asbestos Notification Form

Abatement company  
information and project  
description.

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**PART B** PROJECT DESCRIPTION (Continued)

- d) Other surfaces removed by dismantling with friable asbestos left in place:

Type of Surface \_\_\_\_\_ Amount (ft<sup>2</sup>) \_\_\_\_\_

- e) Will any of the above surfaces be
- hot
- during removal? YES \_\_\_\_\_ NO \_\_\_\_\_

Type of Hot Surface(s) \_\_\_\_\_

Temperature(s) of Hot Surface(s) \_\_\_\_\_ F<sup>o</sup>

Total Amounts of Non-friable Asbestos Materials Which May Become Friable:

- f) Category I Non-friable Asbestos Material(s) that will or have been subjected to Sanding, Cutting, Grinding or Abrading:

Amount(s) \_\_\_\_\_ Ft<sup>2</sup> \_\_\_\_\_ Linear Ft

Type(s) of Material \_\_\_\_\_

- g) Category II Non-friable Asbestos Material(s) that have a high probability of becoming or have become crumbled, pulverized, or reduced to powder in the course of demolition or renovation activities:

Amount(s) \_\_\_\_\_ Ft<sup>2</sup> \_\_\_\_\_ Linear Ft

Type(s) of Material \_\_\_\_\_

**4. Project Schedule**

Actual Removal Dates: Start \_\_\_\_\_ Finish \_\_\_\_\_

Overall Project Dates: Start \_\_\_\_\_ Finish \_\_\_\_\_

**PART C** PROPOSED ASBESTOS REMOVAL WORK PRACTICES

Attach one or more supplemental sheets that provide a general plan view of the area(s) where friable asbestos-containing materials are to be removed. The plan must indicate the following:

- Location and size of work area boundaries as defined by existing entryways or temporary partitions.
- Locations within the work area from which asbestos is to be removed.
- Proposed locations of HEPA equipped ventilating fans, when required, and the location of their inlets and outlets.
- Proposed locations of viewing windows, decontamination facilities, waste loadout facilities and any enclosed passageways constructed to provide access to them.

For glove bag removal projects that are identified in Part C, Item 2, the plan need only indicate the locations from which the asbestos is to be removed.

## Asbestos Notification Form

Project description  
continued and proposed  
work practices.



**PART C    PROPOSED ASBESTOS REMOVAL WORK PRACTICES (Continued)**

1. Proposed work practices and procedures to comply with K.A.R. 28-50-9(a)(11) and (12):  
\_\_\_\_ Clearance monitoring procedures as described in 40 C.F.R. 763-90(i)  
\_\_\_\_ High speed leaf blower and ventilation work practices and procedures  
\_\_\_\_ Not applicable – proposed work procedures listed under Part C 3, 4, 5 or Part D only.
2. Type and Amount of Material that will be Removed in Full Compliance with Basic Gross Removal Work Practice Requirements Contained in K.A.R. 28-50-9(a):  
Type of Material \_\_\_\_\_ Amount \_\_\_\_\_ Ft<sup>2</sup> \_\_\_\_\_ Linear Ft
3. Type and Amount of Material that will be Removed in Full Compliance with Glove Bag Removal Work Practice Requirements Contained in K.A.R. 28-50-9(c):  
Type of Material \_\_\_\_\_ Amount \_\_\_\_\_ Ft<sup>2</sup> \_\_\_\_\_ Linear Ft
4. Type and Amount of Material that will be Removed in Full Compliance with Outdoor Removal Work Practice Requirements Contained in K.A.R. 28-50-9(d):  
Type of Material \_\_\_\_\_ Amount \_\_\_\_\_ Ft<sup>2</sup> \_\_\_\_\_ Linear Ft
5. Type and Amount of Material that will be Removed in Full Compliance with Demolition Removal Work Practice Requirements Contained in K.A.R. 28-50-9(e):  
Type of Material \_\_\_\_\_ Amount \_\_\_\_\_ Ft<sup>2</sup> \_\_\_\_\_ Linear Ft
6. Type and Amount of Material that will be Removed under a Requested Waiver of Full Compliance with Basic Gross Removal Work Practice Requirements Contained in K.A.R. 28-50-9(a):  
Type of Material \_\_\_\_\_ Amount \_\_\_\_\_ Ft<sup>2</sup> \_\_\_\_\_ Linear Ft

**NOTE:** If a waiver is to be considered, attach supplemental sheets which contain the following:

- a. A brief description of **each** individual work practice intended to be waived.
- b. The reason the waiver is being requested.
- c. The subsection of K.A.R. 28-50-9 under which the waiver is being requested.
- d. A brief description of the work practices that will be followed in place of those that are identified in item (a) above.

**PART D    SPECIAL CONSIDERATIONS – DISMANTLING (K.A.R. 28-50-12)**

1. Amount of Asbestos – containing Material that will be Left Intact on the Disassembled Items that are to be removed from the Premises, same as Part B Items 3b and 3d:  
Amount \_\_\_\_\_ Ft<sup>2</sup> \_\_\_\_\_ Linear Ft
2. Work Practices and Amount of Asbestos to be Removed to facilitate Dismantling Activities must be reported in Part C.
3. Describe how the Disassembled Items will be Handled and Disposed of:

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## Asbestos Notification Form

Proposed work practices continued and any requests for special consideration under K.A.R. 28-50-12

**PART E     WASTE DISPOSAL**

1. Indicate Name and Address of Firm that will Transport Asbestos-containing Waste to Disposal Site:

\_\_\_\_\_  
Address \_\_\_\_\_ Location \_\_\_\_\_

2. Indicate Disposal Site:

Name \_\_\_\_\_ Location \_\_\_\_\_

3. Describe Method of Collecting and Disposing of Asbestos-containing Waste Water from Showers and Equipment Cleanup:

Shower Water: \_\_\_\_\_

Equipment Cleanup: \_\_\_\_\_

4. Describe Methods of Collecting and Disposing of Other Sources of Asbestos-contaminated Waste Water that will be Generated by this Project:

Types of Waste Water \_\_\_\_\_ Estimated Amount (Gal.) \_\_\_\_\_

Disposal Method \_\_\_\_\_

5. Will a Trailer/Truck Mounted Vacuum System be used to Remove Asbestos-containing Waste?

\_\_\_\_\_ YES                  \_\_\_\_\_ NO

If yes, provide location of the trailer or truck on the general plan view that is required in Part C. On a Supplemental Sheet, describe measures to secure the area around the trailer/truck and associated equipment.

**PART F     SUPERVISOR CERTIFICATION**

Indicate Name(s) of the Class II Supervisor(s) who will be Responsible for On-site Supervision:

\_\_\_\_\_

On a Supplemental Sheet or Sheets, List the Names and Certification Number of the Supervisors/Workers Involved with This Project.

**ASBESTOS NOTIFICATION FORM SUPPLEMENTAL SHEET**

Reference: Project Site \_\_\_\_\_ Notification Date \_\_\_\_\_

## Asbestos Notification Form

Waste Disposal  
information as required  
by K.A.R. 28-50-14

# Asbestos Regs - K.A.R. 28-50-1 to 28-50-14

## 28-50-8: Describes notification requirements in Kansas

Must submit a demolition notification form at least 10 business days prior to work.

Required for all demolitions, no fee. If friable ACM is present, must be abated first, then demoed.

Can request a “wet demo” if the structure is in “imminent danger of collapse.” If approved, demolished while under constant water spray, then “burrito wrapped” in containers lined with polyvinyl sheeting. Zero visible emissions allowed, including any water runoff from possible punctures. May appear to be easier, but great care must be taken to do a proper wet demo!

10 day wait period cannot be waived per federal rules.





## KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT ASBESTOS DEMOLITION NOTIFICATION FORM

**GENERAL INSTRUCTIONS:** This Asbestos Demolition Notification Form is to be completed and submitted before a building or structure is to be demolished. **NOTE: IF THE BUILDING OR STRUCTURE CONTAINS FRIABLE ASBESTOS-CONTAINING MATERIALS, THE ASBESTOS NOTIFICATION FORM (ET-ASB8) MUST BE COMPLETED AND SUBMITTED TO THE DEPARTMENT. THIS ASBESTOS DEMOLITION FORM WILL NOT BE ACCEPTED FOR REPORTING THE REMOVAL OF FRIABLE ASBESTOS-CONTAINING MATERIALS FROM BUILDINGS SCHEDULED FOR DEMOLITION.** This form is to be received by the Department not less than 10 working days before the demolition project is scheduled to start. Any notification that is incomplete or any notification indicating site activities to be in violation of applicable regulations will be considered an invalid notification.

Separate notifications must be provided for each building or other individual facility where demolition of said building or facility is to be demolished. Additional copies of this form should be reproduced as needed.

Under most circumstances, the removal of Category I nonfriable asbestos-containing materials will not be required prior to demolition unless the building is to be burned or the materials are considered to be friable. Category II nonfriable asbestos-containing materials must be removed prior to demolition if the materials would be subject to crushing, crumbling or pulverizing during the process of demolition of the building or structure.

Mail the original, signed and completed form to:

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT  
BUREAU OF AIR  
1000 SW JACKSON, SUITE 310  
TOPEKA, KANSAS 66612-1366  
(785) 296-6024

### PART A AUTHENTICATION

I hereby certify that, to the best of my knowledge and understanding, the information provided is complete, true and correct.

Please type or **PRINT NAME LEGIBLE** \_\_\_\_\_ Title \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Name of Firm \_\_\_\_\_

Telephone No. (\_\_\_\_\_) \_\_\_\_\_

### PART B PROJECT DESCRIPTION

Building/Structure Owner \_\_\_\_\_

Owner Address: Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Owner Contact: Name \_\_\_\_\_ Telephone No. (\_\_\_\_\_) \_\_\_\_\_

Building Address: Street \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_

Present Use: \_\_\_\_\_ Past Use: \_\_\_\_\_ Age of Building: \_\_\_\_\_

Building Floor Space: (sq ft) \_\_\_\_\_ No. of Floors: \_\_\_\_\_

Scheduled Demolition Start \_\_\_\_/\_\_\_\_/\_\_\_\_ Completion \_\_\_\_/\_\_\_\_/\_\_\_\_

Describe how building will be demolished: \_\_\_\_\_

# Demolition Notification Form

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**PART C INSPECTION INFORMATION**

Was an inspection for asbestos conducted for this project? \_\_\_\_\_ Yes \_\_\_\_\_ No

If yes, provide the following information:

Inspector Name \_\_\_\_\_ Date Inspected \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Telephone No. (\_\_\_\_\_) \_\_\_\_\_

Accreditation by \_\_\_\_\_ Exp. Date \_\_\_\_\_

Provide method used to detect the presence of asbestos material, including analytical methods: \_\_\_\_\_

**PART D DEMOLITION CONTRACTOR INFORMATION**

Contractor: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Contact: \_\_\_\_\_ Telephone No. (\_\_\_\_\_) \_\_\_\_\_

**PART E IDENTIFIED ASBESTOS CONTAINING MATERIALS**

Nonfriable Category I: \_\_\_\_\_ s.f. \_\_\_\_\_ l.f. \_\_\_\_\_ c. yd.

Nonfriable Category II: \_\_\_\_\_ s.f. \_\_\_\_\_ l.f. \_\_\_\_\_ c. yd.

Friable Asbestos \_\_\_\_\_ s.f. \_\_\_\_\_ l.f. \_\_\_\_\_ c. yd.

If friable asbestos-containing materials are present state who will be removing the material and when it will be removed:

If nonfriable Category II asbestos-containing materials are present, briefly state the work practices intended to be used to insure these materials do not become friable (crushed, crumbled, or pulverized):

Is building or structure to be burned? \_\_\_\_\_ Yes \_\_\_\_\_ No If yes, attach a copy of the required approval letter from KDHE. **NOTE:** All asbestos-containing materials and any additional materials, as required by the Department, must be removed prior to burning.

Was demolition ordered by a Local Government because the structure is structurally unsafe and in danger of imminent collapse?  
\_\_\_\_\_ Yes \_\_\_\_\_ No If yes, attach copy of the order

**PART F WASTE DISPOSAL**

Disposal Site: \_\_\_\_\_

KDHE Licensed Municipal Solid Waste (Sanitary) or Construction/Demolition (C&D) Landfill Permit Number \_\_\_\_\_

Location: City \_\_\_\_\_ County \_\_\_\_\_ State \_\_\_\_\_

Waste Transporter: \_\_\_\_\_

# Demolition Notification Form

Our Mission: To



# Asbestos Regs - K.A.R. 28-50-1 to 28-50-14

28-50-9: Describes work practices for asbestos-removal projects in occupied spaces.

Contains instruction on building enclosures, decontamination facilities, waste load-out areas, HEPA filtration and negative air pressure requirements, warning signs, etc.



# Asbestos Regs - K.A.R. 28-50-1 to 28-50-14



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# Asbestos Regs - K.A.R. 28-50-1 to 28-50-14

28-50-14: Describes disposal requirements for ACM.

Friable ACM must go to an approved landfill.

- Fenced and displays warning signs
- Must send in dump tickets to KDHE
- Must ensure non-friable ACM does not go to a crusher, concrete reclamation, rip-rap use, bank stabilization use, etc.
- Requires 45 day wait period and a Class II on site when digging/drilling into an ACM disposal landfill.



# Asbestos Regs - K.A.R. 28-50-1 to 28-50-14



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# Questions?

Phil Schlaman  
785-296-1549  
PSchlaman@kdheks.gov

Adam Irvin  
785-296-1578  
Airvin@kdheks.gov

Javier Ahumada  
785-296-0243  
JAhumada@kdheks.gov

Tina Gustafson  
785-296-5505  
CGustafson@kdheks.gov



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